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Listing and Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of the Claims

1. (currently amended) Method for processing video data to be displayed on a display screen by

providing said video data having video levels selected from a predetermined number of video levels;,

encoding said predetermined number of video levels with a corresponding number of subfield codewords, wherein to each bit of a subfield codeword a subfield is assigned, during which a cell of the display screen can be activated for light generation depending on the state of the corresponding bit of said subfield codeword; ~~and illuminating pixels in a central area of said display screen in accordance with said codewords;~~

comprising the following steps:

encoding the video levels of said video data in a central area of the display screen with the corresponding subfield codewords, and

~~illuminating pixels~~ encoding the video levels of said video data in a predetermined border area surrounding said central area of said display screen by using only those subfield codewords of said number of subfield codewords, which do not have a change of a subfield bit from a binary 0 ~~between two~~ to a binary 1 in a selectable part of the subfield codewords to prevent in said border area a cell which was not activated for a subfield in said selectable part from being activated for a following subfield in said selectable part, in order to avoid a response fidelity problem in said border area.

2-14. (canceled)

15. (currently amended) Method according to claim 1, wherein video levels corresponding to subfield codewords being not used are recreated by dithering.

16. (currently amended) Method according to claim 1, wherein said selectable part of the subfield codewords ~~with a biflary 0 between two binary 1~~, which shall not have a change of a subfield bit from a binary 0 to a binary 1, is determined by a power level of a picture to be displayed.

17. (currently amended) Method of claim 1, wherein said part of the subfield codewords being determined to be with no ~~binary 0 between two binary 1~~change of a subfield bit from a binary 0 to a binary 1 includes the most significant bits of the subfield codewords.

18. (previously presented) Method according to claim 1, wherein the border area is divided into several sub-areas, a first one of said several sub-areas being illuminated by subfield codewords with a first selectable part with no ~~binary 0 between two binary 1~~ change of a subfield bit from a binary 0 to a binary 1 and a second one of said several areas being illuminated by subfield codewords with a second selectable part with no ~~binary 0 between two binary 1~~ change of a subfield bit from a binary 0 to a binary 1, which second selectable part includes the first selectable part of subfield codewords or at least a portion of it or which is different from the first selectable part.

19. (previously presented) Method according to claim 1, wherein cells of the display screen are subjected to dynamic priming.

20. (currently amended) Device for processing video data to be displayed on a display screen ~~including~~comprising:

data providing means for providing said video data having video levels selected from a predetermined number of video levels~~;~~;

encoding means for encoding said predetermined number of video levels with a corresponding number of subfield codewords; and

illuminating means for illuminating pixels in a central area of said display screen in accordance with said subfield codewords~~;~~; whercin

said illuminating means is adapted for illuminating pixels in a border area surrounding said central area of said display screen by using only those subfield codewords of said number of subfield codewords, which do not have a change of a subfield bit from a binary 0 ~~between two~~ to a binary 1 in a selectable part of the subfield codewords.

21. (currently amended) Device according to claim 20, further ~~including~~ comprising dithering means for recreating video levels corresponding to subfield codewords being not used.

22. (currently amended) Device according to claim 20, further ~~including~~ comprising a power level determining means for determining the power level of said video data, so that said part of the subfield codewords with no ~~binary 0 between two binary 1~~ change of a subfield bit from a binary 0 to a binary 1 is determinable on the basis of said power level.

23. (currently amended) Device of claim 20, wherein said part of the subfield codewords being determined to be with no ~~binary 0 between two binary 1~~ change of a subfield bit from a binary 0 to a binary 1 includes the most significant bits of the subfield codewords.

24. (currently amended) Device according to claim 20, wherein said illuminating means is adapted to divide said border area into several sub-areas, a first one of said several sub-areas being illuminable by subfield codewords with a first selectable part with no ~~binary 0 between two binary 1~~ change of a subfield bit from a binary 0 to a binary 1 and a second one of said several sub-areas being illuminable by subfield codewords with a second selectable part with ~~no binary 0 between two binary 1~~ change of a subfield bit from a binary 0 to a binary 1, which second selectable part includes the first selectable part of subfield codewords or at least a portion of it or which is different from the first selectable par.

25. (currently amended) Device according to claim 20, further ~~including~~ comprising dynamic priming means for dynamically priming cells of the display screen.

26. (new) Method for processing video data to be displayed on a display screen by providing said video data having video levels selected from a predetermined number of video levels; and

encoding said predetermined number of video levels with a corresponding number of subfield codewords, wherein to each bit of a subfield codeword a subfield is assigned, during which a cell of the display screen can be activated for illuminating pixels depending on the state of the corresponding bit of said subfield codeword comprising the following steps:

encoding the video levels of said video data in a central area of the display screen with the corresponding subfield codewords; and

encoding the video levels of said video data in a predetermined border area surrounding said central area of said display screen by using only those subfield codewords of said number of subfield codewords, which do not have a binary 0 between two binary 1 in a selectable part of the subfield codewords to prevent in said border area a cell which was not activated for a subfield in said selectable part from being activated for a following subfield in said selectable part, in order to avoid a response fidelity problem in said border area.

27. (new) Device for processing video data to be displayed on a display screen comprising:

data providing means for providing said video data having video levels selected from a predetermined number of video levels;

encoding means for encoding said predetermined number of video levels with a corresponding number of subfield codewords, wherein to each bit of a subfield codeword a subfield is assigned, during which a cell of the display screen can be activated for illuminating pixels depending on the state of the corresponding bit of said subfield codeword; and

illuminating means for illuminating pixels in a central area of said display screen in accordance with said subfield codewords;

wherein said illuminating means is adapted for illuminating pixels in a border area surrounding said central area of said display screen by using only those subfield codewords of said number of subfield codewords, which do not have a binary 0 between two binary 1 in a selectable part of the subfield codewords to prevent in said border area a cell which was not activated for a subfield in said selectable part from being activated for a following subfield in said selectable part, in order to avoid a response fidelity problem in said border area.